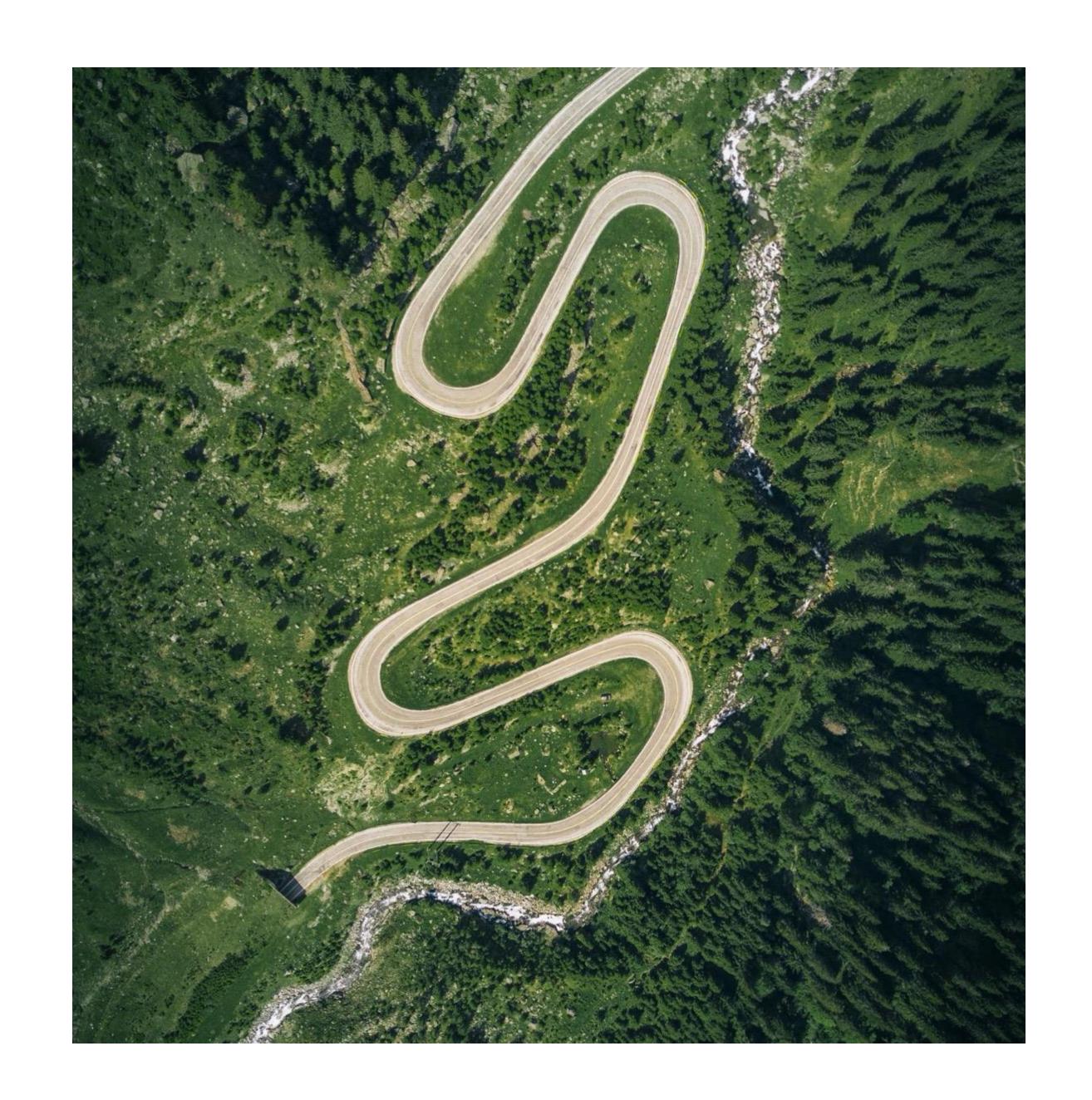


Current legal protections and gaps in genetic antidiscrimination law

Anya Prince
Associate Professor
University of Iowa College of Law



- Genetic nondiscrimination federal law
- Protections & gaps
- Genetic nondiscrimination state law
- Considerations for G X E research



Legal Protections for Genetic Data





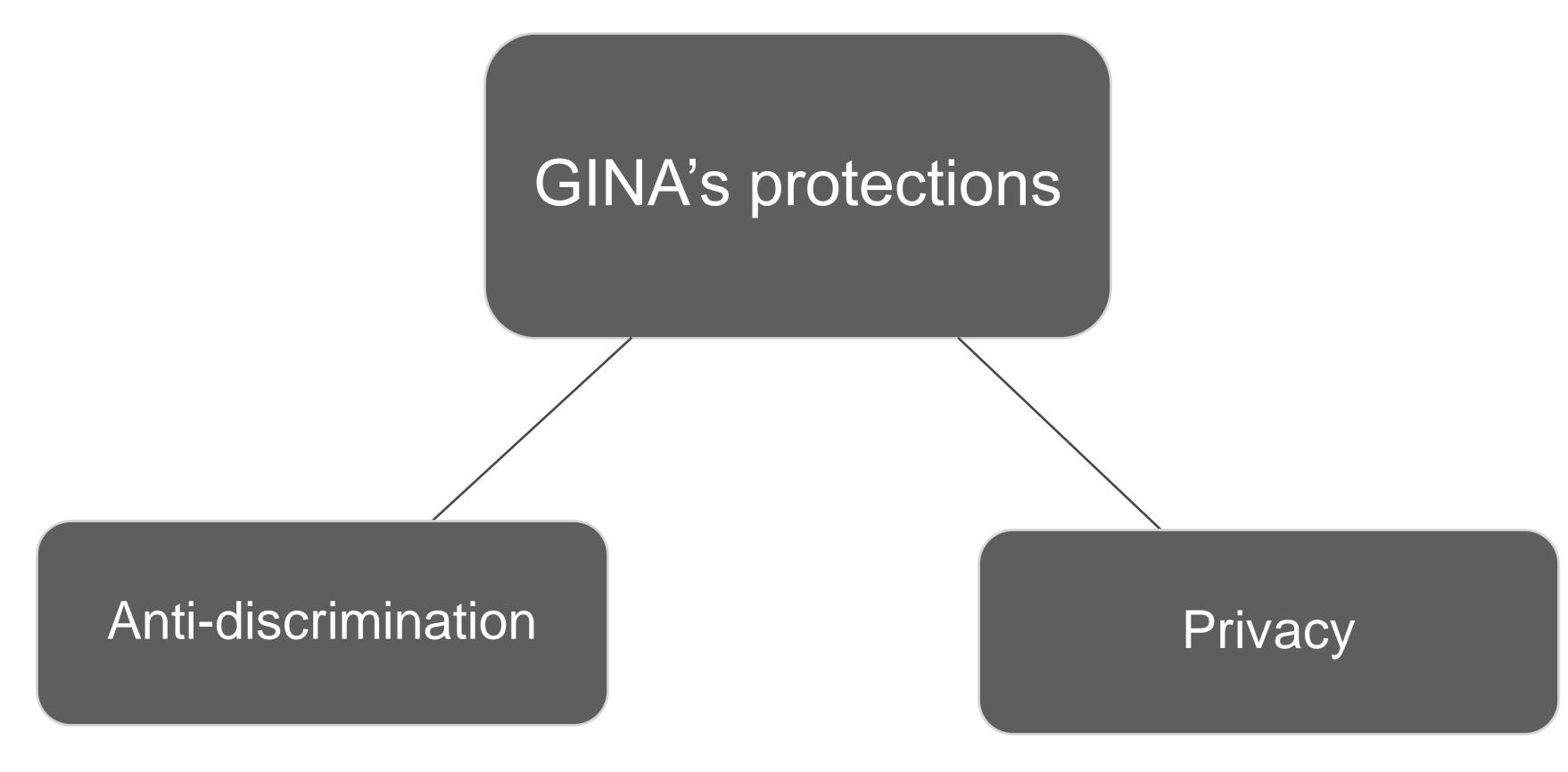
Genetic Information Nondiscrimination Act (GINA) of 2008

Covered Entities Employers

- Applies to state and local governments
- Applies to private employers with 15 or more employees
- Applies to employment agencies and labor organizations
- Read to apply to federal employees
- Does not apply to Indian tribes or bona fide private clubs

Covered Entities Health Insurers

- Applies to group and individual health plans
- Applies to Medigap plans
- Does not apply to Tricare, Veterans Health, the Indian Health Service, or the Federal Employee Health Benefits Plan (FEHBP) (although there are other protections for these groups)
- Does not apply to other insurances, such as life, long-term care, or disability insurance



GINA prohibits covered entities from using genetic information to make adverse decisions

GINA prohibits covered entities from collecting genetic information with few exceptions

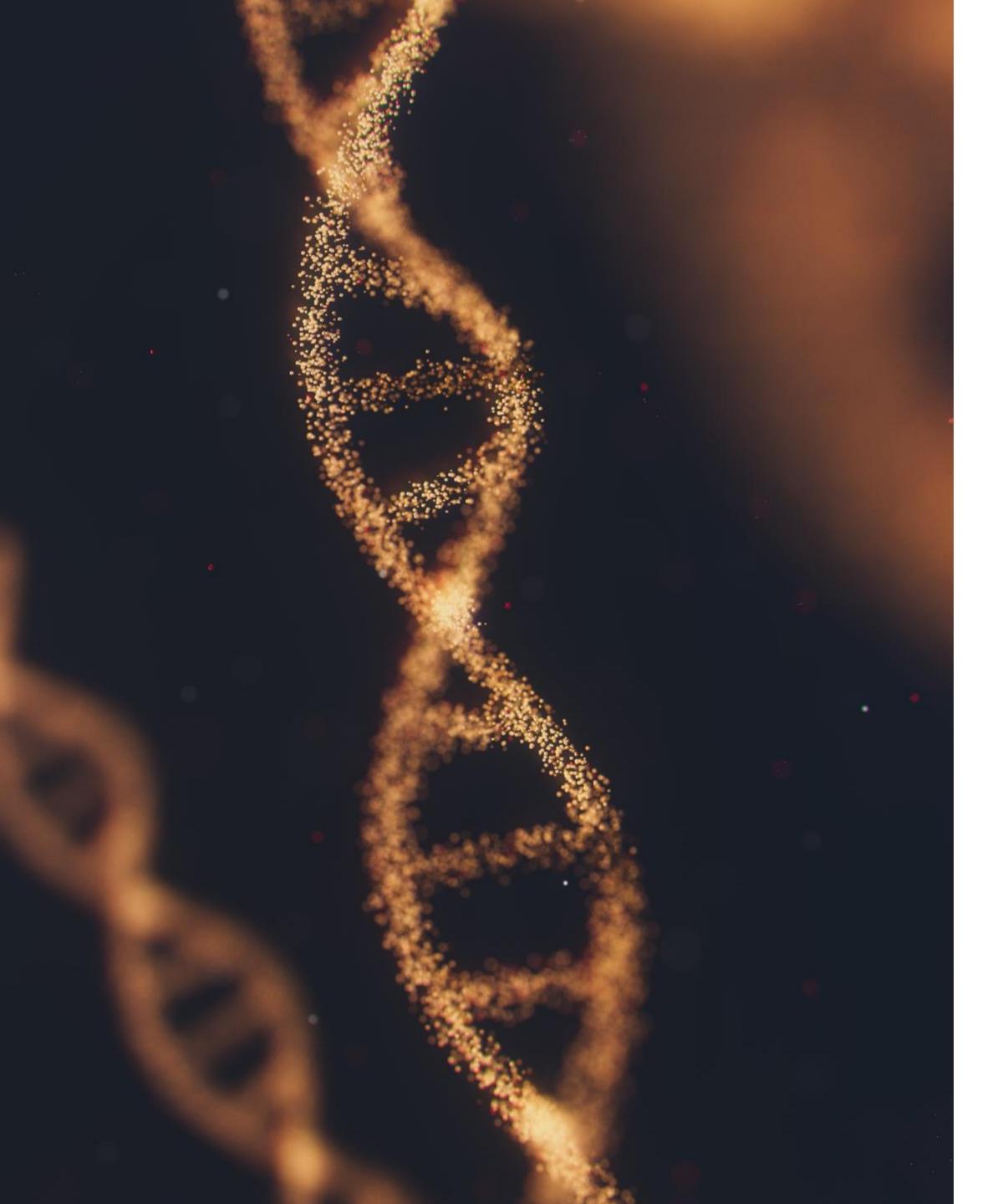
Bans on use of genetic information

Employment

- Cannot fail to hire
- No firing
- No changes in compensation, terms, conditions of employment
- Cannot segregate or classify the employee in a detrimental way

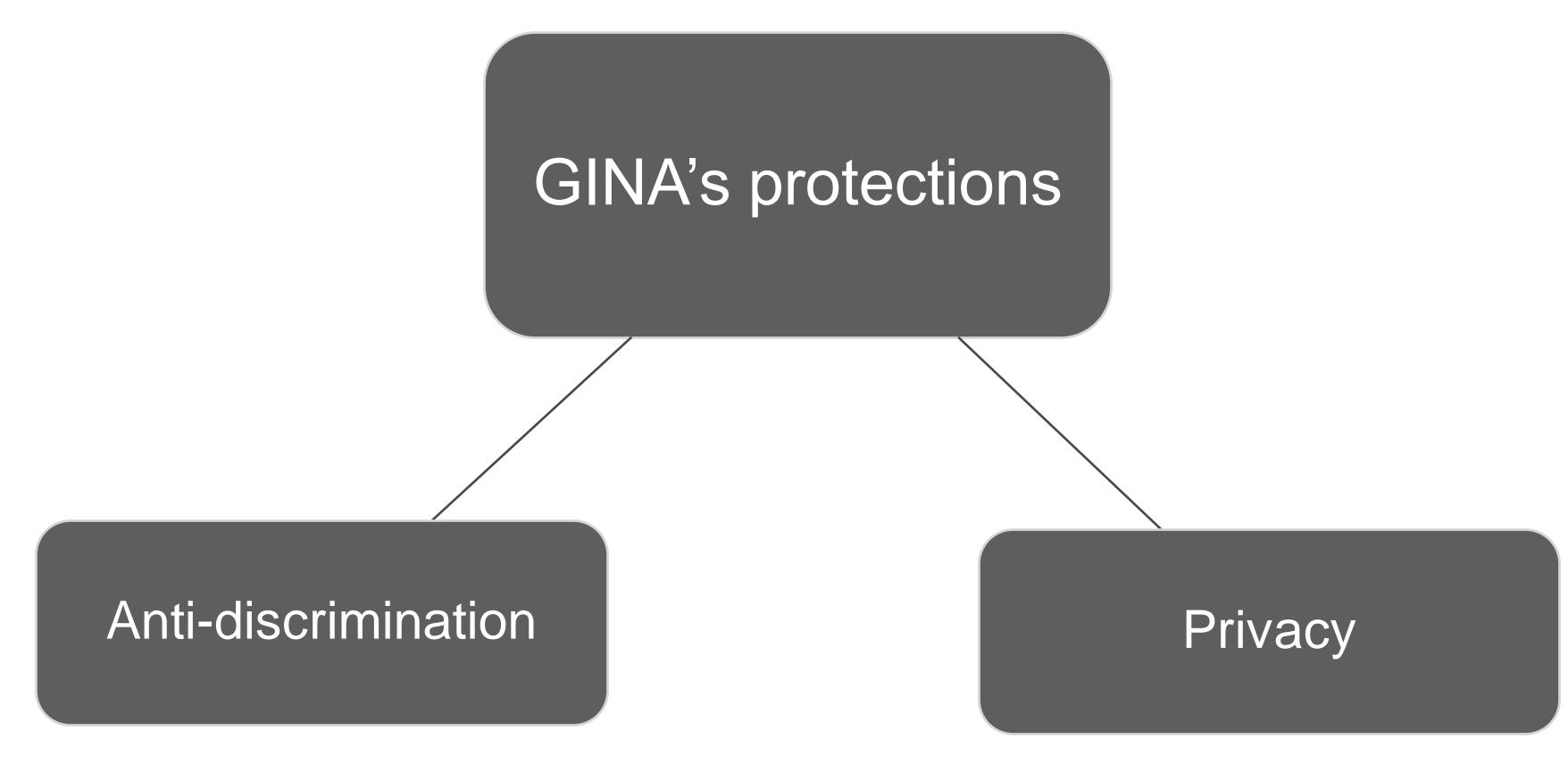
Health Insurance

- No higher premiums or changes in contribution amounts
- No denials
- Cannot deny coverage renewal
- Genetic information cannot be considered a pre-existing condition



Genetic Information

- Genetic test results (individual and family)
- Family medical history
- Participation in genetic research
- Use of genetic services
 - Genetic counseling
 - Genetic education
- Does not include manifested diseases



GINA prohibits covered entities from using genetic information to make adverse decisions

GINA prohibits covered entities from collecting genetic information with few exceptions

Collection of genetic information

- Cannot request, require, or purchase genetic information
- Applies to both health insurers and employers
- Several exceptions apply



Exceptions to collection in employment

- The "water cooler" exception inadvertent acquisition
- Family and medical leave certifications
- Publicly available information

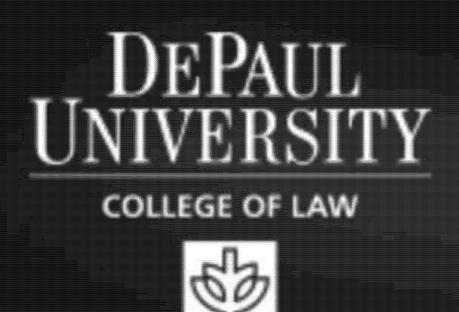
- Wellness programs
 - If voluntary
- Law enforcement purposes
- Genetic monitoring of effects of toxic substances





Gaps in GINA

- Does not apply to manifested disease
- Does not apply to small businesses (fewer than 15 employees)
- Does not apply to life, long-term care, and disability insurers
- Does not apply to any other entities
- Must look to state law for additional protections



DePaul Journal of Health Care Law

Home > Law > DePaul Journal of Health Care Law > Vol. 22 > Iss. 1

The Problems with Patchwork: State Approaches to Regulating Insurer Use of Genetic Information

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State Regulation of Life, LTC, and Disability Ins.

Insurance lines	Ban on use	Use with actuarial justification	informed	Bar use of particular test	Other
Life	1	7	11	4	12
Long-term Care	2	6	7	0	9
Disability	3*	8	10	1	12

Definitions matter au point (l'œil). 3. (a) localiser (une maladie) à son foyer; (b) v.i. (of illness) se localiser à son foyer. fo'c'sle ['fouksl] n. Nau: 1. gaillard m, f. deck, pont de gaillard 2 (in merchant vessel) poste m de pont de gaillard. 2. (in merchant vessel) poste m de focus, pl. foci, focuses ['foukas, 'fousai, foukəsiz] n. 1. Mth: Opt: etc: foyer m (de lentille, etc.); Opt: depth of f., (i) profondeur f de foyer; (ii) profondeur de champ; in f., (i) (of image) au point; (ii) (of instrument) règle; out of f., (i) (of image) pas au point; (ii) (of instrument) non règlé, dérèglé; (iii)

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Genetic Test in GINA

- The term 'genetic test' means an analysis of human DNA, RNA, chromosomes, proteins, or metabolites, that detects genotypes, mutations, or chromosomal changes.
- "(B) EXCEPTIONS.—The term 'genetic test' does not mean—
 - "(i) an analysis of proteins or metabolites that does not detect genotypes, mutations, or chromosomal changes; or
 - "(ii) an analysis of proteins or metabolites that is directly related to a manifested disease, disorder, or pathological condition that could reasonably be detected by a health care professional...

Definitional table

SPECTOR-BAGDADY ET AL.



TABLE 1 Examples of state statutory definitions of "genetic test" or "characteristic"

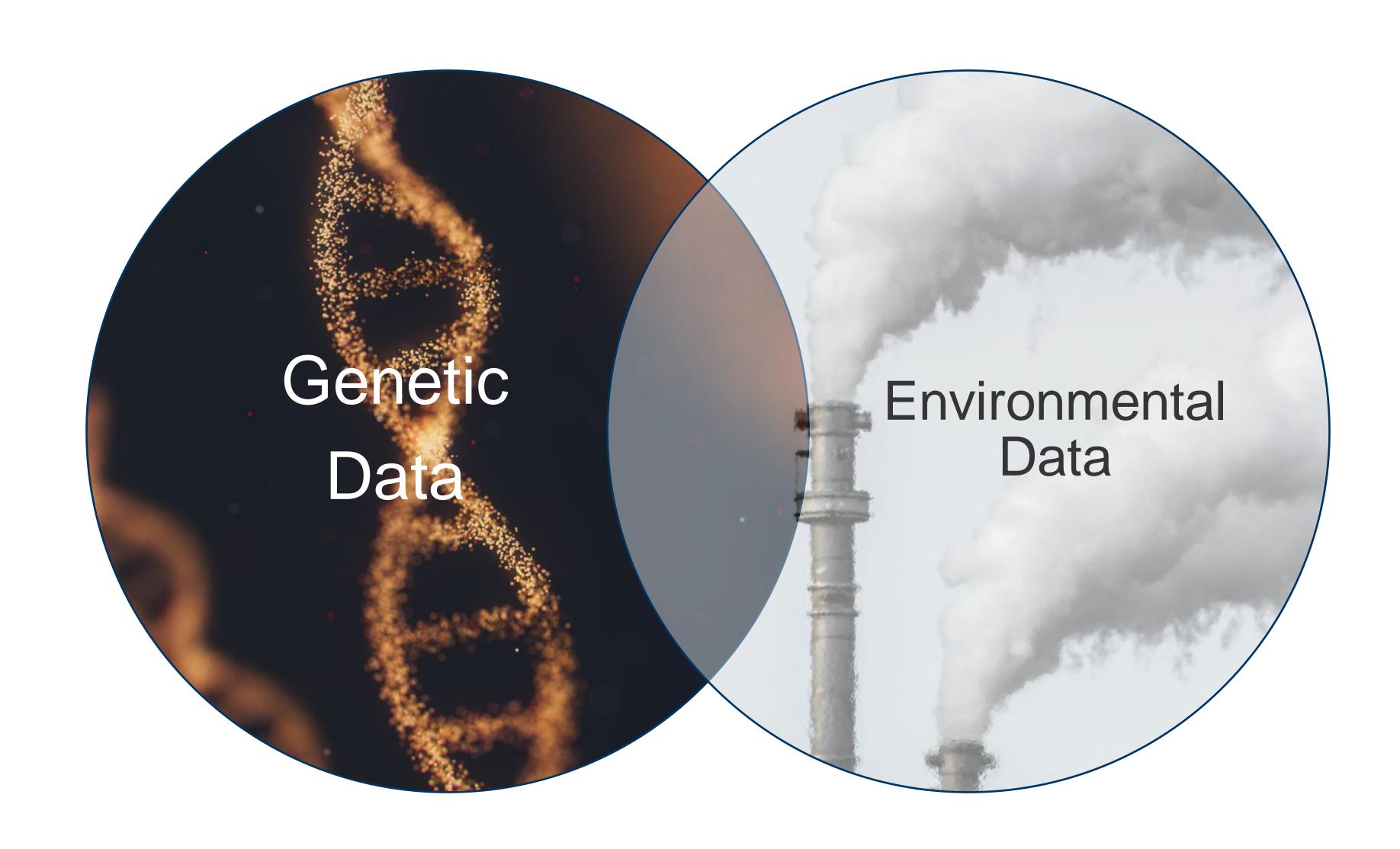
Statutory example	Limitation
Genetic characteristic: "any scientifically or medically identifiable gene or chromosome, or alteration thereof, that is known to be a cause of a disease or disorder, or that is determined to be associated with a statistically increased risk of development of a disease or disorder" (CA)	To variants known or associated with disease or disorder
Genetic test: "a laboratory test used to identify the presence or absence of inherited or congenital alterations in genetic material that are associated with disease or illness." (MD)	To tests associated with negative health effects
Genetic test: " a presymptomatic test of a person's genes, gene products, or chromosomes for the purpose of determining the presence or absence of a gene or genes that exhibit abnormalities, defects, or deficiencies, including carrier status, that are known to be the cause of a disease or disorder, or are determined to be associated with a statistically increased risk of development of a disease or disorder." (MN)	To a presymptomatic test

^aCal. Insurance Code § 10147(b) (2000)

^bMD. Code Ann., Ins. § 27–909(5) (2016)

^cMinn. Ann. Stat. § 72A.139(Subd. 2)(B) (2016).

Considerations for GXE Research



Thanks!

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Research reported in this publication was supported by the National Human Genome Research Institute of the National Institutes of Health under Award Number R00HG008819. The content is solely the responsibility of the author and does not necessarily represent the official views of the National Institutes of Health.

